

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application and annexed to the International Preliminary Report on Patentability:

1-(original) Method for processing video pictures and displaying them on a pulse-width modulation-driven display device, the video pictures consisting of pixels digitally coded, the digital code word determining the length of the time period during which the corresponding pixel of a display is activated, wherein to each bit of a digital code word a certain activation duration called sub-field is assigned, the sum of the duration of the sub-fields according to a given code word determining the length of the time period during which the corresponding pixel is activated, said method comprising the following steps:

- detecting the video pictures source mode and the parity between pictures,
- if the source is in film mode, distributing the total number of sub-fields used for two frame raster in three groups of sub-fields and assigning to a value of a pixel a code word that corresponds to the distribution of the active sub-fields period over the three sub-fields groups, and
- if the source is in camera mode, distributing the total number of sub-fields used for each frame raster in two groups of sub-fields and assigning to a value of a pixel a code word that corresponds to the distribution of the active sub-fields period over the two sub-fields groups.

2- (original) Method according to claim 1, wherein each one of the three groups of sub-fields or each one of the two groups of sub-fields comprises a number of sub-fields equal or different by one.

3- (currently amended) Method according to claim 1 ~~or 2~~, wherein the three groups of sub-fields in film mode and the two groups of sub-fields in camera mode have identical structure at least in terms of the most significant sub-fields.

4- (currently amended) Method according to claims 1 ~~to 3~~, wherein the three groups of sub-fields have identical structure at least in terms of the least significant sub-fields.

5- (currently amended) Method according to ~~one of~~ claims 1 ~~to 4~~, wherein the detection of the video pictures source modes and the parity between pictures is done by analysing the intra field motion.

6- (currently amended) Method according to ~~one of the~~ claims 1 ~~to 5~~, wherein the change of coding from the coding used in camera mode to the coding used in film mode is made at the next frame following the detection of a change between the source type.

7- (currently amended) Method according to ~~one of the~~ claims 1 ~~to 5~~, wherein the change of coding from the coding used in film mode to the coding used in camera mode is made using the following steps:

- If in a two-frame raster, the first picture is in film mode and the second picture is in camera mode, add at the beginning of the second frame, a sub-field having a weight such that the total activation duration of the sub-fields of the first frame and said sub-field is substantially equal to the total activation duration of the sub-fields of two groups of subfields of a camera mode picture,
- Code the second picture using two groups of sub-fields with a total number of sub-fields less than the total number of subfields for a camera mode picture and a total activation duration equal to the time period for displaying a camera mode picture, then

- Code the following pictures using two groups of sub-fields with a total number of sub-fields having a total activation duration equal to the time period for displaying a camera mode picture.

8- (currently amended) Apparatus ~~characterized in that~~ wherein it adapted to carry out the method according to ~~any one of claims 1-7~~ claim 1.